



PRODUCT DATA

Brand Name: CORLINE®

Description: CORLINE® was designed for linings exposed to extreme erosion environments in heat enclosures of the oil refining, petrochemical, gas processing and solid fuels processing industries. CORLINE® is a High Alumina, Chemically Bonded, Erosion Resistant Refractory.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3300°F (1816°C)

Dry Material Required per Cubic Foot : 175 - 185 lbs.

Bulk Density (pcf)

| | | |
|-----------------------|-----------|----------------------------------|
| After 220°F (104°C) | 165 - 175 | (2.64 - 2.80 g/cm ³) |
| After 1500°F (815°C) | 160 - 170 | (2.56 - 2.72 g/cm ³) |
| After 2000°F (1093°C) | 160 - 170 | (2.56 - 2.72 g/cm ³) |

Modulus of Rupture (psi)

| | | |
|-----------------------|-------------|---------------------------------|
| After 220°F (104°C) | 2100 - 3100 | (147 - 217 kg/cm ²) |
| After 1500°F (815°C) | 3000 - 4000 | (210 - 280 kg/cm ²) |
| After 2000°F (1093°C) | 2500 - 3500 | (175 - 245 kg/cm ²) |

Thermal Conductivity

| | <u>BTU/ft²/hr/°F/inch</u> | <u>W/mK</u> |
|-----------------------|--------------------------------------|-------------|
| After 1500°F (815°C) | 24.7 | 3.56 |
| After 2000°F (1093°C) | 22.5 | 3.24 |

Permanent Linear Change (%)

| | |
|-----------------------|--------------|
| After 1500°F (815°C) | -0.8 to -0.2 |
| After 2000°F (1093°C) | -0.6 to 0.0 |

Typical Chemical Analysis (%)

(Calcined Basis)

| | |
|---|------|
| Alumina (Al ₂ O ₃) | 87.4 |
| Silica (SiO ₂) | 5.3 |
| Lime (CaO) | 0.1 |
| Iron Oxide (Fe ₂ O ₃) | 0.3 |
| Titania (TiO ₂) | 0.2 |
| Magnesia (MgO) | 0.1 |
| Phosphorus Pentoxide (P ₂ O ₅) | 6.3 |
| Alkalis (Na ₂ O+K ₂ O) | 0.2 |

Standard Packaging: 50 & 100 lb drum

Brand Code: 0782

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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